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(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 06298193 A

(43) Date of publication of application: 25.10.94

(51) Int. Cl.

B64D 47/00

H01L 41/09

(21) Application number: 05092819

(71) Applicant: MITSUBISHI HEAVY IND LTD

(22) Date of filing: 20.04.93

(72) Inventor: OGINO KIMIKO

(54) AIRCRAFT INNER SOUND REDUCTION DEVICE COPYRIGHT: (C)1994,JPO

(57) Abstract:

PURPOSE: To enable sound insulation in an extensive band, lighten a device and embody the sound insulation in the extensive band by using a signal treatment device to detect oscillation and to output a exciting piezo element and an offset driving signal.

CONSTITUTION: In a recessed part of each stringer 3 of a fuselage part of an aircraft, a piezo element 8 is installed. Each piezo element 8 is connected to a signal treatment device 10. That is, when the aircraft flies, oscillation is generated on a fuselage by aerodynamic action. This oscillation is detected by the piezo element 8 and delivered to the signal treatment device 10. The signal treatment device 10 outputs a driving signal to offset the oscillation from this input signal to the same piezo element 8. The piezo element 8 excites the stringer 3 in accordance with input and offsets the oscillation. In this way, generated oscillation is detected and actively restrained, and accordingly, oscillation in an extensive frequency region is effectively reduced.

